

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the applications:

Listing of Claims:

Claims 1-12. (Canceled).

Claim 13. (Currently Amended) A vascular graft comprising:

a core zone comprising a PET fabric, said core zone having a first surface and a second surface opposing said first surface, wherein the first surface is a blood interface surface; and
a first non-porous coating disposed on said first surface and permeating into at least a portion of said core zone, such that said at least one portion of said core zone is impermeable, wherein said first coating comprises at least one polyurethane; wherein the coating comprises a polyurethane urea, wherein said first coating has a thickness of about 12 μ m.

Claim 14. (Currently Amended) A vascular graft comprising:

a core zone comprising a PET fabric, said core zone having a first surface and a second surface opposing said first surface, wherein the first surface is a blood interface surface; and
a first non-porous coating disposed on said first surface and permeating into at least a portion of said core zone, such that said at least one portion of said core zone is impermeable, wherein said first coating comprises at least one polyurethane; wherein the coating comprises a polyetherurethane urea blended with a siloxane containing a surface modifying additive, wherein said first coating has a thickness of about 12 μ m.

Claim 15. (Canceled).

Claim 16. (Currently Amended) A vascular graft comprising:

a core zone comprising a PET fabric, said core zone having a first surface and a second surface opposing said first surface, wherein the first surface is a blood interface surface; and
a first non-porous coating disposed on said first surface and permeating into at least a portion of said core zone, such that said at least one portion of said core zone is impermeable, wherein said first coating comprises at least one polyurethane; wherein said at least one polyurethane comprises a soft segment and a hard segment, wherein said first coating has a thickness of about 12 μ m.

Claims 21-50. (Canceled).

Claim 51. (Currently Amended) A vascular graft comprising:

a core zone comprising a PET fabric, said core zone having a first surface and a second surface opposing said first surface, wherein the first surface is a blood interface surface; and a first non-porous coating disposed on said first surface and permeating into at least a portion of said core zone, such that said at least one portion of said core zone is impermeable, wherein said first coating comprises at least one polyurethane; wherein the coating comprises a polyurethane urea ~~The graft of claim 13~~, wherein said first coating has a thickness in a range of about 4 μ m to about 5 μ m.

Claim 52. (Canceled).

Claim 53. (Currently Amended) A vascular graft comprising:

a core zone comprising a PET fabric, said core zone having a first surface and a second surface opposing said first surface, wherein the first surface is a blood interface surface; and a first non-porous coating disposed on said first surface and permeating into at least a portion of said core zone, such that said at least one portion of said core zone is impermeable, wherein said first coating comprises at least one polyurethane; wherein the coating comprises a polyetherurethane urea blended with a siloxane containing a surface modifying additive ~~The graft of claim 14~~, wherein said first coating has a thickness in a range of about 4 μ m to about 5 μ m.

Claim 54. (Canceled).

Claim 55. (Currently Amended) A vascular graft comprising:

a core zone comprising a PET fabric, said core zone having a first surface and a second surface opposing said first surface, wherein the first surface is a blood interface surface; and a first non-porous coating disposed on said first surface and permeating into at least a portion of said core zone, such that said at least one portion of said core zone is impermeable, wherein said first coating comprises at least one polyurethane; wherein said at least one polyurethane comprises a soft segment and a hard segment ~~The graft of claim 16~~, wherein said first coating has a thickness in a range of about 4 μ m to about 5 μ m.

Claim 56. (New) The graft of claim 55 wherein the soft segment has a molecular weight of about 2,000 g/mole.

Claim 57. (New) The graft of claim 55 wherein the soft segment comprises one or more compounds selected from the group consisting of polyethylene oxide, polypropylene oxide,

polytetramethylene oxide, polycarbonate, polyolefin, polysiloxane, polyether soft segments made from higher homologous series of diols, and mixtures and combinations thereof.

Claim 58. (New) The graft of claim 55 wherein the hard segment comprises one or more compounds selected from the group consisting of 4,4'-diphenylmethane diisocyanate, tetramethylene diisocyanate, hexamethylene diisocyanate, trimethyhexamethylene diisocyanate, tetramethylxylylene diisocyanate, 4,4'-decyclohexylmethane diisocyanate, dimer acid diisocyanate, isophorone diisocyanate, metaxylene diisocyanate, diethylbenzene diisocyanate, decamethylene 1,10 diisocyanate, cyclohexylene 1,2-diisocyanate, 2,4-toluene diisocyanate, 2,6-toluene diisocyanate, xylene diisocyanate, m-phenylene diisocyanate, hexahydrotolylene diisocyanate (and isomers), naphthylene-1,5-diisocyanate, 1-methoxyphenyl2,4-diisocyanate, 4,4'-biphenylene diisocyanate, 3,3-dimethoxy-4,4'-biphenyl diisocyanate, ethylene diamine, propane diamines, butanediamines, hexanediamines, pentane diamines, heptane diamines, octane diamines, m-xylylene diamine, 1,4-cyclohexane diamine, 2-methypentamethylene diamine, 4,4'-methylene dianiline, alkanol amines and diamines, ethylene glycol, diethylene glycol, triethylene glycol, 1,4-butanediol, neopentyl alcohol, 1,6-hexanediol, 1,8-octanediol, propylene glycols, 2,3-butylene glycol, dipropylene glycol, dibutylene glycol, glycerol, and mixtures and combinations thereof.

Claim 59. (New) The graft of claim 55 wherein said coating comprises a polyether urethane urea, and wherein said soft segment comprises polytetramethylene oxide (PTMO) and said hard segment comprises 4,4'-diphenylmethane diisocyanate (MDI) and ethylene diamine.